

DUTY AREA
AIRCRAFT SAFETY EQUIPMENT MECHANIC (MOS 6287)

A. GENERAL, OPERATIONAL AND SAFETY DUTIES

1. Operates and maintains applicable shop support/special equipment.
2. Demonstrates/applies applicable safety precautions and procedures in the work center.
3. Demonstrates/applies knowledge of applicable aircraft publications, diagrams, sketches and drawings.
4. Performs tasks on the aircraft using applicable precision measuring equipment.
5. Demonstrates/applies knowledge of liquid oxygen servicing procedures using oxygen servicing trailers or direct equipment and purges aircraft oxygen systems.
6. Demonstrates/applies knowledge of characteristics and properties of gases used in aircraft centered safety equipment and life sustaining systems.

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

1. Performs required scheduled/unscheduled inspections on applicable systems/components as per Maintenance requirement Cards.
2. Incorporates applicable technical directives changes/bulletins.
3. Detects corrosion and performs corrosion control.
4. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the canopy system using appropriate maintenance procedures and support/test equipment.
5. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the SJU-5/A, SJU-6/A egress system using appropriate maintenance procedures and support/test equipment.
6. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the SJU-17(V)1A, SJU-17(V)2A NACES system using appropriate maintenance procedures and support/test equipment.
7. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fire extinguishing system using appropriate maintenance procedures and support/test equipment.
8. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cabin pressurization system using appropriate maintenance procedures and support/test equipment.
9. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the environmental control system using appropriate maintenance procedures and support/test equipment.
10. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the bleed air system using appropriate maintenance procedures and support/test equipment.
11. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the bleed air leak detection system using appropriate maintenance procedures and support/test equipment.
12. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Air Cycle Air Conditioning System (ACACS) using appropriate maintenance procedures and support/test equipment.
13. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cabin cooling/defog system using appropriate maintenance procedures and support/test equipment.

DA MOS 6287 (Continued)

14. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the vent suit system using appropriate maintenance procedures and support/test equipment.
15. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the avionics cooling system using appropriate maintenance procedures and support/test equipment.
16. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the canopy seal pressure system using appropriate maintenance procedures and support/test equipment.
17. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the On-Board Oxygen Generating System (OBOGS) using appropriate maintenance procedures and support/test equipment.
18. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the liquid oxygen system using appropriate maintenance procedures and support/test equipment.
19. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the windshield anti-ice & rain removal systems using appropriate maintenance procedures and support/test equipment.
20. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the wave guide pressure system using appropriate maintenance procedures and support/test equipment.
21. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Anti-"G" system using appropriate maintenance procedures and support/test equipment.
22. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Deployable Flight Incident Recorder System (DFIRS) using appropriate maintenance procedures and support/test equipment.

SKILL PROGRESSION LEVEL DEFINITIONS

- LEVEL I: An asterisk in level I indicates the task is taught at the "Entry Level (A) School".
- Level II: An asterisk in level II indicates the task is taught at the NAMTRAGRU DET. Other tasks in level II not indicated with an asterisk will be signed off when exposed to the individual for the first time. All subsequent training which the Marine performs after initial exposure should be annotated on the OPNAV 4790/33 form until he/she is signed off in level III.
- LEVEL III: An asterisk in level III indicates the task is considered training essential. A sign-off in level III indicates the Marine can perform that task w/o direct supervision. The unit is responsible for these sign-off's.
- LEVEL IV: Used by the unit to indicate an individual is advanced in technical and supervisory functions. Prior to sign-off, all training essential and training optional tasks in level III must have been signed-off. Only one sign-off for the Duty Area is required.

Sign-off blanks: (MO/YR)/(INDIVIDUAL'S INITIALS)/(SUPERVISOR'S INITIALS)

Note: Refer to MCO P4790.20_ for further clarification.

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT SAFETY EQUIPMENT MECHANIC (MOS 6287)

A. GENERAL, OPERATIONAL AND SAFETY DUTIESA.1 Operates and maintains applicable shop support/special equipment.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Aircraft ground servicing canopy brace, 74D120000	A1-F18AX-120-300		* / /	* / /	
B	Seat maintenance pin set, MBEU68444	A1-F18AX-120-300		* / /	* / /	
C	Optical micrometer	TO 33B4-2-10-1	*	* / /	* / /	
D	Aircraft maintenance platforms, B-1, B-2, B-4, & B-5A	NA 19-600-19-6-1	*	/ /	/ /	

A.2 Demonstrates/applies applicable safety precautions and procedures in the work center.

A	Ground occupational safety and health programs in specific areas					
A-1	First aid procedures	Marine BST/ Essential Subjects Handbook	*	/ /	* / /	
A-2	Hazardous material/waste	OPNAVINST 4790.2 OSHA 29 CFR 1910 NAVAIR A1-NAOSH- SAF-000/P5100-1 DOD 4140.27-M Local Instr	*	/ /	* / /	
A-3	Safety procedures near electricity	OSHA 29 CFR 1910 NAVAIR A1-NAOSH- SAF-000/P5100-1 Local Instr	*	/ /	* / /	
A-4	Personal protective equipment, (safety/flight boots, clothing, hearing/eye protection, etc)	OSHA 29 CFR 1910 NAVAIR A1-NAOSH- SAF-000/P5100-1 Local Instr	*	/ /	/ /	
A-5	Safety markings	OSHA 29 CFR 1910 NAVAIR A1-NAOSH- SAF-000/P5100-1 Local Instr	*	/ /	/ /	
B	Shop emergency procedures					
B-1	Types of fire extinguishers	OSHA 29 CFR 1910 NAVAIR A1-NAOSH- SAF-000/P5100-1	*	/ /	/ /	
B-2	Emergency eyewash procedures	Local Instr	*	/ /	/ /	

DA A.2 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Hydraulic contamination	OPNAVINST 4790.2 NA 01-1A-17 Local Instr	*	/ /	/ /	
D	Emergency reclamation	OPNAVINST 4790.2 NA 01-1A-509 NA 16-1-540 Local Instr		/ /	/ /	
E	Aircraft Safety					
E-1	Canopy safety	A1-F18Ax-120-100	*	* / /	* / /	
E-2	Ejection seat safety	A1-F18Ax-120-100	*	* / /	* / /	
E-3	Boarding ladder operation	A1-F18Ax-LMM-000		* / /	* / /	
E-4	Controls/switches/indicators & normal position	A1-F18Ax-LMM-000		* / /	* / /	
F	Line Maintenance Emergency Procedures	A1-F18Ax-LMM-020		* / /	* / /	
G	General housekeeping	OSHA 29 CFR 1910	*	* / /	* / /	
H	Shop & Equipment Safety	OPNAVINST 4790.2	*	* / /	* / /	
I	Composite Material Safety	OSHA 29 CFR 1910	*	/ /	* / /	
J	ABO Safety	A6-332-AO-GYD-000	*	/ /	* / /	

A.3 Demonstrates/applies knowledge of applicable aircraft publications.

A	General Aircraft Information	A1-F18AX-GAI-000	*	* / /	* / /	
B	Principles of Operation Manuals					
B-1	Seat, Canopy, Survival Equipment & Boarding Ladder	A1-F18AX-120-100	*	* / /	* / /	
B-2	Secondary Power Systems	A1-F18AX-240-100	*	* / /	* / /	
B-3	Environmental Control Systems	A1-F18AX-410-100	*	/ /	* / /	
B-4	Aircraft Ejection Seat SJU-17 (V) series	NA 13-1-36		* / /	* / /	
B-5	Flight Incident Recorder And Monitoring System	A1-F18AX-580-100		* / /	* / /	
C	Testing & Troubleshooting Manuals					
C-1	Seat, Canopy, Survival Equipment & Boarding Ladder	A1-F18AX-120-200	*	* / /	* / /	
C-2	Secondary Power Systems	A1-F18AX-240-200	*	* / /	* / /	
C-3	Environmental Control Systems	A1-F18AX-410-200	*	* / /	* / /	
C-4	Flight Incident Recorder And Monitoring System	A1-F18AX-580-200		* / /	* / /	
D	System Maintenance Manuals					
D-1	Seat, Canopy, Survival Equipment & Boarding Ladder	A1-F18AX-120-300	*	* / /	* / /	
D-2	Secondary Power Systems	A1-F18AX-240-300	*	* / /	* / /	
D-3	Environmental Control Systems	A1-F18AX-410-300	*	* / /	* / /	
D-4	Flight Incident Recording And Monitoring System	A1-F18AX-580-300		* / /	* / /	
E	System Schematic Manuals					
E-1	Seat, Canopy, Survival Equipment & Boarding Ladder	A1-F18AX-120-500	*	* / /	* / /	
E-2	Secondary Power Systems	A1-F18AX-240-500	*	* / /	* / /	

DA A.3 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
E-3	Environmental Control Systems	A1-F18AX-410-500	*	* / /	* / /	
F	Aircraft Ejection Seat System Maintenance with IPB	A1-F18AX-120-310	*	* / /	* / /	
G	Parts List Index	A1-F18AX-IPB-450		/ /	* / /	
H	Periodic Maintenance Information Cards	A1-F18AX-MRC-000	*	* / /	* / /	
I	Turnaround Checklist	A1-F18AX-MRC-100	*	/ /	* / /	
J	Maintenance Requirement Cards Daily/Special/Preservation	A1-F18AX-MRC-200	*	* / /	* / /	
K	Maintenance Requirement Cards special/preservation	A1-F18AX-MRC-250		* / /	* / /	
L	Phased Maintenance Requirement Cards	A1-F18AX-MRC-300		* / /	* / /	
M	Challenge & Reply Check List	A1-F18AX-120-600 A1-F18AX-120-650		* / /	* / /	
M-1	NACES	NA 13-1-37		* / /	* / /	
M-2	SKU-10/ seat bucket	A1-F18AX-120-700		* / /	* / /	
N	Aircraft Technical Documentation List	A1-F18AX-AML-000		/ /	* / /	
O	Fault Isolation Manual	A1-F18AX-FIM-000		* / /	* / /	
P	Fault Isolation Manual	A1-F18AX-FIM-010		* / /	* / /	
Q	Fault Reporting Manual	A1-F18AX-FRM-000		* / /	* / /	
R	Line Maintenance Procedures	A1-F18AX-LMM-000		* / /	* / /	
S	Line Maintenance Access Doors	A1-F18AX-LMM-010		* / /	* / /	
T	Line Maintenance Emergency Procedures	A1-F18AX-LMM-020		* / /	* / /	
U	Line Maintenance Conditional Inspections	A1-F18AX-LMM-030		/ /	* / /	
V	NATOPS Flight Manual	A1-F18AX-NFM-000		/ /	* / /	
W	Plane Captain's Manual	A1-F18AX-PCM-000		* / /	* / /	
X	Work Unit Code Manual	A1-F18AX-WUC-800	*	/ /	* / /	
Y	Aircraft Corrosion Control	A1-F18AX-SRM-500	*	/ /	* / /	
Z	Structural/Repair IPB manual	A1-F18AX-SRM-450	*	/ /	* / /	
AA	Piping Installation Manual	A1-F18AX-PIM-010		* / /	* / /	
BB	Naval Aviation Maintenance Program (NAMP)	OPNAVINST 4790.2	*	/ /	* / /	
CC	Safety Manual	OHSA 29 CFR 1910	*	/ /	* / /	
DD	Technical Manual Program	NA 00-25-100	*	/ /	* / /	
EE	Naval Aeronautics Publication List	NA 00-500		* / /	/ /	
FF	Aircraft Structural Hardware	NA 01-1A-8		/ /	* / /	
GG	Aviation Hydraulics Manual	NA 01-1A-17	*	/ /	* / /	
HH	Aircraft Weapons System Cleaning & Corrosion Control	NA 01-1A-509	*	/ /	* / /	
II	Aircrew Escape Propulsion Devices	NA 11-85-1	*	* / /	* / /	
JJ	General Use Cartridges & Cartridge Actuated Devices for Aircraft & Associated Equipment	NA 11-100-1.1	*	* / /	* / /	
KK	Ammunition Afloat	OP-4 OP-5		/ /	* / /	
LL	Torque Tools	NAVAIR 17-1-108	*	/ /	* / /	
MM	Aircraft Tool Control Manual	NAVAIR 17-1FA18-1	*	/ /	* / /	
NN	Pre-op Checklist, Aircraft Oxygen System (AOS) Test set, TTU-520A/E	AG-500AO-MRC-100		/ /	* / /	
OO	Pre-op Checklist, Aircraft Ejection Seat Dolly	19-600-218-6-1		/ /	* / /	

IQR, MOS 6287, NAME: _____

DATE: August 2002

A.4 Performs tasks on the aircraft using applicable precision measuring equipment.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Operates inch-pound torque wrench	A1-F18AX-XXX-300	*	* / /	* / /	
B	Operates foot-pound torque wrench	A1-F18AX-XXX-300	*	* / /	* / /	
C	Operates DDPH-50 push-pull gauge	A1-F18AX-XXX-300	*	* / /	* / /	
D	Operates optical micrometer set	A1-F18AX-XXX-300 TO-33B4-2-10-1		* / /	* / /	
E	Operates outside micrometer caliper	A1-F18AX-XXX-300		/ /	/ /	
F	Operates telescoping gauge	A1-F18AX-XXX-300		/ /	/ /	
G	Operates fluke multimeter 77/AN	T0-33A1-12-216-1 A1-F18AX-LWS-000	*	/ /	* / /	
H	Operates ACS pressure indicating test set, 74D410141-1001	A1-F18AX-410-200		/ /	/ /	
I	Barostat tester, TRM / BRU Tester	A1-F18AX-120-310	*	* / /	* / /	
J	Test unit, TRM drouge gun / BRU Tester	A1-F18AX-120-310	*	* / /	* / /	
K	OBOGS test set	A1-F18AX-XXX-XXX		* / /	/ /	

A.5 Demonstrates/applies knowledge of liquid oxygen servicing procedures using oxygen servicing trailers or direct equipment and purges aircraft oxygen systems.

A	Lox converter exchange	A1-F18AX-LMM-000	*	/ /	* / /	
B	Servicing lox converter	A1-F18AX-LMM-000	*	/ /	* / /	
C	Inspection of protective clothes	A6-332-AO-GYD-000	*	/ /	* / /	
D	Purging acft oxygen system	A1-F18AX-410-300	*	/ /	* / /	

A.6 Demonstrates/applies knowledge of characteristics and properties of gases used in aircraft centered safety equipment and life sustaining systems.

A	Uses proper safety precautions during servicing evolutions	A6-332-AO-GYD-000	*	/ /	* / /	
B	Ensures proper handling and storage of liquid oxygen	A6-332-AO-GYD-000	*	/ /	* / /	

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT SAFETY EQUIPMENT MECHANIC (MOS 6287)

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

B.1 Performs required scheduled/unscheduled inspections on applicable systems/components as per Maintenance Requirement Cards.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Periodic Maintenance Information	A1-F18AX-MRC-000			* / /	* / /	
B	Turnaround Checklist Requirement	A1-F18AX-MRC-100		*	/ /	* / /	
C	Daily/Servicing/Special/Preservation/ Conditional Requirement	A1-F18AX-MRC-200		*	* / /	* / /	
D	Phase Maintenance Requirement						
D-1	Performs "A" phase inspection	A1-F18AX-MRC-300			/ /	* / /	
D-2	Performs "B" phase inspection	A1-F18AX-MRC-300			/ /	* / /	
D-3	Performs "C" phase inspection	A1-F18AX-MRC-300			/ /	* / /	
D-4	Performs "D" phase inspection	A1-F18AX-MRC-300			/ /	* / /	
E	Performs special 14-day inspection	A1-F18AC-MRC-250		*	* / /	* / /	
F	Performs corrosion control 84-day inspection	A1-F18AC-MRC-250			/ /	* / /	
G	Performs corrosion control 42-day inspection	A1-F18AC-MRC-250			* / /	* / /	
H	Performs special 224-day inspection	A1-F18AC-MRC-250		*	/ /	* / /	
I	Performs special 448-day inspection	A1-F18AC-MRC-250			* / /	* / /	
J	Performs special 728-day inspection	A1-F18XX-MRC-250			* / /	* / /	
K	Performs preservation/depreservation inspection	A1-F18XX-MRC-250			/ /	* / /	
L	Performs acceptance/transfer inspection	OPNAVINST 4790.2			/ /	/ /	

B.2 Incorporates applicable technical directives changes/bulletins.

A	Rapid Action Minor Engineering Change (RAMEC) Proposals	NAVAIRINST 5215.10			/ /	/ /	
B	Incorporates airframe/aircrew changes	OPNAVINST 4790.2			/ /	* / /	
C	Incorporates airframe/aircrew bulletins	OPNAVINST 4790.2			/ /	* / /	

B.3 Detects corrosion and performs corrosion control.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Performs corrosion detection during all maintenance actions	A1-F18AX-SRM-500 NA 01-1A-509		*	* / /	* / /	
B	Performs corrosion prevention during all maintenance actions	A1-F18AX-SRM-500 NA 01-1A-509		*	* / /	* / /	
C	Performs corrective action on corrosion discrepancies	A1-F18AX-SRM-500 NA 01-1A-509		*	/ /	* / /	
D	Performs corrosion detection/prevention on support equipment	A1-F18AX-SRM-500 NA 01-1A-509		*	/ /	* / /	

B.4 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the canopy system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Canopy system	A1-F18AX-120-100		*	* / /	* / /	
B	Functional check						
B-1	Canopy system	A1-F18AX-120-200		*	* / /	* / /	
C	Fault isolation						
C-1	Canopy system	A1-F18AX-120-200	12510	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R canopy	A1-F18AX-120-300	12510	*	/ /	/ /	
D-2	R&R canopy pressure seal	A1-F18AX-120-300	41211	*	/ /	/ /	
D-3	R&R canopy weather seal	A1-F18AX-120-300	41211	*	/ /	/ /	
D-4	Rigs canopy	A1-F18AX-120-300	41211	*	/ /	/ /	
D-5	R&R canopy actuator	A1-F18AX-120-300	1251130	*	/ /	* / /	
D-6	R&R canopy jettison rocket motor	A1-F18AX-120-300	97D37	*	/ /	/ /	
D-7	R&R canopy unlatch thruster	A1-F18AX-120-300	97A8Z	*	/ /	/ /	
D-8	R&R canopy CAD & initiators	A1-F18AX-120-300	97A92	*	/ /	* / /	
D-9	R&R canopy FCDC	A1-F18AX-120-300	97A9H		/ /	* / /	
D-10	R&R canopy jettison SMDC initiator	A1-F18AX-120-300	97A9Y		/ /	* / /	

B.5 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the SJU-5/A, SJU-6/A egress system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	SJU-5/A, SJU-6/A egress system	A1-F18AX-120-100		*	* / /	* / /	
B	Functional check						
B-1	SJU-5/A, SJU-6/A egress system	A1-F18AX-120-200			* / /	* / /	
C	Fault isolation						
C-1	SJU-5/A, SJU-6/A egress system	A1-F18AX-120-200	17000		* / /	* / /	

DA.B.5 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	R&R ejection seat (SJU-5A)	A1-F18AX-120-600	171D0	*	* / /	* / /	
D-2	R&R ejection seat (SJU-6A)	A1-F18AX-120-600	171E0		* / /	* / /	
D-3	R&R aircraft seat parachute	A1-F18AX-120-600	17480		* / /	* / /	
D-4	R&R aft aircraft seat parachute	A1-F18AX-120-600	17480		* / /	* / /	
D-5	R&R survival kit assembly	A1-F18AX-120-600	17580		* / /	* / /	
D-6	R&R aft survival kit assembly	A1-F18AX-120-600	17580		* / /	* / /	
D-7	R&R seat bucket	A1-F18AX-120-600	1710200		* / /	* / /	
D-8	R&R drogue gun	A1-F18AX-120-310	171D160		* / /	* / /	
D-9	R&R ejection control handle	A1-F18AX-120-310	171D270		/ /	/ /	
D-10	R&R inertia reel straps	A1-F18AX-120-310	171D140		/ /	/ /	
D-11	R&R leg restraint lines	A1-F18AX-120-310	171D2C0		/ /	/ /	
D-12	R&R time release mechanism	A1-F18AX-120-310	171D150		* / /	* / /	
D-13	R&R rocket motor	A1-F18AX-120-310	97038		* / /	* / /	
D-14	R&R 30-second delay initiator	A1-F18AX-120-310	97A8A		* / /	* / /	
D-15	R&R .75 second delay initiator	A1-F18AX-120-310	97A88		/ /	* / /	
D-16	R&R ejection seat initiators	A1-F18AX-120-310	97A29		* / /	* / /	
D-17	Arms ejection seat	A1-F18AX-120-600	17000		* / /	* / /	
D-18	De-arms ejection seat	A1-F18AX-120-600	17000		* / /	* / /	
D-19	R&R catapult primary cartridge	A1-F18AX-120-310	171D300		* / /	* / /	
D-20	R&R catapult auxiliary cartridges	A1-F18AX-120-310	171D300		* / /	* / /	

B.6 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **SJU-17(V)1A, SJU-17(V)2A NACES system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	SJU-17(V)1A, SJU-17(V)2A NACES system	NA-13-1-36			* / /	* / /	
B	Functional check						
B-1	SJU-17(V)1A, SJU-17(V)2A NACES system	NA-13-1-36			* / /	* / /	
C	Fault isolation						
C-1	SJU-17(V)1A, SJU-17(V)2A NACES system	NA-13-1-36	17130		/ /	* / /	
D	Organizational maintenance						
D-1	R&R ejection seat SJU-17(V)1A		17130		* / /	* / /	
D-2	R&R ejection seat SJU-17(V)2A		17130		* / /	* / /	
D-3	R&R survival kit assembly	NA-13-1-36	91A50		* / /	* / /	
D-4	R&R aft survival kit assembly	NA-13-1-36	91A50		* / /	* / /	
D-5	R&R aircraft seat parachute	NA-13-1-36	91A4500		* / /	* / /	
D-6	R&R aft aircraft seat parachute	NA-13-1-36	91A4500		* / /	* / /	
D-7	R&R seat bucket	NA-13-1-36	1713110		* / /	* / /	
D-8	R&R leg restraint lines	NA-13-1-36			/ /	/ /	
D-9	R&R inertia reel straps	NA-13-1-36	17134		/ /	/ /	
D-10	R&R seat height actuator	NA-13-1-36	1713120		/ /	/ /	
D-11	R&R ejection control handle	NA-13-1-36	1713112		/ /	* / /	

DA.B.6 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-12	R&R drogue canister assembly	NA-13-1-36	17133		/ /	* / /	
D-13	R&R drogue deployment catapult	NA-13-1-36	17133		/ /	* / /	
D-14	R&R drogue bridle assembly	NA-13-1-36	1713D		/ /	/ / /	
D-15	R&R parachute deployment rocket motor	NA-13-1-36	97D4A		* / /	* / / /	
D-16	R&R ejection sequencer	NA-13-1-36	1713E10		/ /	* / /	
D-17	R&R barostatic release unit	NA-13-1-36			* / /	* / / /	
D-18	R&R thermal batteries	NA-13-1-36			/ /	* / / /	
D-19	R&R underseat rocket motor	NA-13-1-36	97D38		* / /	* / / /	
D-20	Arm ejection seat	NA-13-1-36	17130		* / /	* / / /	
D-21	De-arm ejection seat	NA-13-1-36	17130		* / /	* / / /	
D-22	R&R ejection seat initiator	NA-13-1-36	97C9D		* / /	* / / /	
D-23	R&R MOR initiator	NA-13-1-36	97C9N		* / /	* / / /	
D-24	R&R 0.30 second delay initiator	NA-13-1-36	97A8A		* / /	* / / /	
D-25	R&R 0.75 second delay initiator	NA-13-1-36	97A88		* / /	* / / /	
D-26	R&R catapult primary cartridge	NA-13-1-36	97C9B		* / /	* / / /	
D-27	R&R catapult auxiliary cartridge	NA-13-1-36	97C98		* / /	* / / /	

B.7 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **fire extinguishing system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Fire extinguishing system	A1-F18AX-410-100		*	* / /	* / / /	
B	Functional check						
B-1	Fire extinguishing system	A1-F18AX-240-200		*	* / /	* / / /	
C	Fault isolation						
C-1	Fire extinguishing system	A1-F18AX-240-200	49120	*	* / /	* / / /	
D	Organizational maintenance						
D-1	R&R fire extinguishing tank	A1-F18AX-240-300	49121		/ /	/ / /	
D-2	R&R fire extinguishing cartridges	A1-F18AX-240-300	97A60		/ /	* / / /	

B.8 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cabin pressurization system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Cabin pressurization system	A1-F18AX-410-100		*	/ /	* / /	
B	Fault isolation						
B-1	Cabin pressurization system	A1-F18AX-410-200		*	/ /	* / /	
C	Organizational maintenance						
C-1	R&R aircraft cabin air pressure regulator	A1-F18AX-410-300	4112K	*	* / /	/ /	
C-2	R&R aircraft cabin air pressure emergency relief valve	A1-F18AX-410-300	41210	*			
C-3	R&R cabin air pressure safety valve	A1-F18AX-410-300	4112J10	*	* / /	/ /	

B.9 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the environmental control system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Environment control system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	Environmental control system	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	Environmental control system	A1-F18AX-410-200		*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R ACS temp flow controller	A1-F18AX-410-300	4115700	*	/ /	/ /	
D-2	R&R ECS panel assembly	A1-F18AX-410-300	4112F00	*	/ /	/ /	

B.10 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the bleed air system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Bleed air system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	Bleed air system in Theory	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	Bleed air system	A1-F18AX-410-200	41110	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R bleed air check valves	A1-F18AX-410-300	41110	*	/ /	/ /	
D-2	R&R secondary pressure regulator & shutoff valve	A1-F18AX-410-300	41111	*	/ /	/ /	
D-3	R&R air isolation valve	A1-F18AX-410-300	24AB6	*	/ /	/ /	
D-4	R&R bleed air ducts	A1-F18AX-410-300	41113	*	/ /	/ /	

B.11 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the bleed air leak detection system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Bleed air leak detection system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check in Theory						
B-1	Bleed air leak detection system	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	Bleed air leak detection system	A1-F18AX-410-200	41130	*	/ /	* / /	

B.12 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Air Cycle Air Conditioning System (ACACS) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	ACACS system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check in Theory						
B-1	ACACS system	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	ACACS system	A1-F18AX-410-200	41130	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R primary heat exchanger	A1-F18AX-410-300	41121	*	/ /	/ /	
D-2	R&R secondary heat exchanger	A1-F18AX-410-300	41152		/ /	/ /	
D-3	R&R system modulating pressure regulator	A1-F18AX-410-300	41153		/ /	/ /	
D-4	R&R turbine/compressor assembly	A1-F18AX-410-300	41151	*	* / /	* / /	
D-5	R&R turbine protective temperature sensor	A1-F18AX-410-300	41151		/ /	/ /	
D-6	R&R compressor protective temperature sensor	A1-F18AX-410-300	41151		* / /	/ /	
D-7	R&R condenser/reheater heat exchanger	A1-F18AX-410-300	41133		* / /	/ /	
D-8	R&R anti-ice ADD heat valve	A1-F18AX-410-300	4112Y		/ /	/ /	
D-9	R&R avionics ram air servo	A1-F18AX-410-300	41120		/ /	/ /	

B.13 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cabin cooling/defog system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Cabin cooling/defog system	A1-F18AX-410-100		*	/ /	* / /	
B	Functional check						
B-1	Cabin cooling/defog system	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	Cabin cooling/defog system	A1-F18AX-410-200	41120	*	/ /	* / /	
D	Organizational maintenance						

DA B.13 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-1	R&R cabin flow valve	A1-F18AX-410-300	4112A	*	* / /	/ /	
D-2	R&R cabin ADD heat valve	A1-F18AX-410-300	41125		/ /	/ /	
D-3	R&R cabin air flow/temp sensor	A1-F18AX-410-300	41120		/ /	/ /	
D-4	R&R cabin air overtemp sensor	A1-F18AX-410-300	41120		/ /	/ /	
D-5	R&R cabin/defog ram air control valve	A1-F18AX-410-300	4112N		/ /	/ /	
D-6	R&R defog control assembly	A1-F18AX-410-300	4115F		/ /	/ /	
D-7	R&R cabin/defog plenum distribution valve	A1-F18AX-410-300	4112C		/ /	/ /	

B.14 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Vent suit system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Vent suit system	A1-F18AX-410-100			/ /	/ /	
B	Functional check						
B-1	Vent suit system	A1-F18AX-410-200			/ /	/ /	
C	Fault isolation						
C-1	Vent suit system	A1-F18AX-410-200	41120		/ /	/ /	
D	Organizational maintenance						
D-1	R&R vent suit temperature valve	A1-F18AX-410-300	4121420		/ /	/ /	
D-2	R&R vent suit temperature sensor	A1-F18AX-410-300	4121400		/ /	/ /	
D-3	R&R vent suit overtemp sensor	A1-F18AX-410-300	4121400		/ /	/ /	
D-4	R&R vent suit pressure regulator valve	A1-F18AX-410-300	4121440		/ /	/ /	
D-5	R&R vent suit press relief valve	A1-F18AX-410-300	4121400		/ /	/ /	

B.15 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Avionics cooling system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Avionics cooling system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	Avionics cooling system	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	Avionics cooling system	A1-F18AX-410-200	41120		/ /	* / /	
D	Organizational maintenance						
D-1	R&R avionics flow valve	A1-F18AX-410-300	41156		* / /	/ /	
D-2	R&R avionics air flow/temp sensor	A1-F18AX-410-300	41150		/ /	/ /	
D-3	R&R avionics under-cool warning temperature sensor	A1-F18AX-410-300	41150		/ /	/ /	
D-4	R&R avionics ram air valve	A1-F18AX-410-300	4115A		/ /	/ /	

DA B.15 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-5	R&R avionics fan control pressure switch	A1-F18AX-410-300	41150		/ /	/ /	
D-6	R&R cabin exit air controller	A1-F18AX-410-3XX	41150		/ /	/ /	
D-7	R&R cabin exit air valve	A1-F18AX-410-3XX	41150		/ /	/ /	
D-8	R&R RLCS heat exchanger	A1-F18AX-410-300	41172	*	/ /	/ /	
D-9	R&R RLCS ground airflow valve	A1-F18AX-410-300	41171		/ /	/ /	
D-10	R&R RLCS pump	A1-F18AX-410-300		*	/ /	/ /	
D-11	R&R RLCS actuator	A1-F18AX-410-300		*	/ /	/ /	

B.16 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the canopy seal pressure system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Canopy seal pressure system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	Canopy seal pressure system	A1-F18AX-410-200		*	* / /	* / /	
C	Fault isolation						
C-1	Canopy seal pressure system	A1-F18AX-410-200	41210	*	* / /	* / /	
D	Organizational maintenance						
D-1	R&R canopy seal pressure regulator	A1-F18AX-410-300	41211	*	/ /	/ /	

B.17 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the On-Board Oxygen Generating System (OBOGS) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	OBOGS system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	OBOGS system	A1-F18AX-410-200			/ /	* / /	
C	Fault isolation						
C-1	OBOGS system	A1-F18AX-410-200		*	/ /	* / /	
D	Organizational maintenance						
D-1	OBOGS purging	A1-F18AX-410-300			/ /	/ /	
D-2	R&R oxygen concentrator	A1-F18AX-410-300	47X1D		* / /	* / /	
D-3	R&R OBOGS control panel	A1-F18AX-410-300	47G40		/ /	* / /	
D-4	R&R forward cockpit OBOGS plenum	A1-F18AX-410-300	47G44		/ /	/ /	
D-5	R&R rear cockpit plenum	A1-F18AX-410-300	47G44		/ /	/ /	
D-6	R&R aircraft seat oxygen disconnect	A1-F18AX-410-300	47G45		/ /	/ /	
D-7	R&R inlet air shuttle valve	A1-F18AX-410-300	47G42		/ /	* / /	
D-8	R&R aircraft oxygen monitor	A1-F18AX-410-300	47X1000		/ /	* / /	
D-9	R&R HPWS pressure switch				/ /	/ /	
D-10	R&R primary heat exchanger shut-off valve				/ /	/ /	

B.18 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the liquid oxygen system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Liquid oxygen system	A1-F18AX-410-100		*	/ /	* / /	
B	Functional check						
B-1	Liquid oxygen system	A1-F18AX-410-200		*	/ /	* / /	
C	Fault isolation						
C-1	Liquid oxygen system	A1-F18AX-410-200	47000	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R oxygen system safety relief valve	A1-F18AX-410-300	47910	*	/ /	/ /	
D-2	R&R aircraft air to oxygen heat exchanger	A1-F18AX-410-300	47910		/ /	/ /	
D-3	R&R oxygen manifold assembly	A1-F18AX-410-300	47910	*	/ /	/ /	
D-4	R&R pilot services control panel assembly	A1-F18AX-410-300	1211111		/ /	/ /	

B.19 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the windshield anti-ice & rain removal systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Windshield anti-ice & rain removal systems	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	Windshield anti-ice & rain removal systems	A1-F18AX-410-200			/ /	* / /	
C	Fault isolation						
C-1	Windshield anti-ice & rain removal systems	A1-F18AX-410-200	41110		/ /	* / /	
D	Organizational maintenance						
D-1	R&R warm air temp control valve	A1-F18AX-410-300	41123		/ /	/ /	
D-2	R&R warm air temperature sensor	A1-F18AX-410-300	41123		/ /	/ /	
D-3	R&R flow/temperature limiting anti-ice modulating valve	A1-F18AX-410-300	41124		/ /	* / /	
D-4	R&R warm air overtemp sensor	A1-F18AX-410-300	41124		/ /	/ /	
D-5	R&R anti-ice/rain removal air control regulating valve	A1-F18AX-410-300	4131110		* / /	/ /	
D-6	R&R windshield overheat temp sensor	A1-F18AX-410-300	4131100		/ /	/ /	

B.20 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the wave guide pressure system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Wave guide pressurization system	A1-F18AC-410-100		*	/ /	* / /	
B	Functional check						
B-1	Wave guide pressurization system	A1-F18AC-410-200			/ /	* / /	
C	Fault isolation						

DA B.20 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C-1	Wave guide pressure system	A1-F18AC-410-200	41150		/ /	* / /	
D	Organizational maintenance						
D-1	R&R avionics pressure filter assy	A1-F18AC-410-300	4121230		/ /	/ /	
D-2	R&R wave guide fluid pressure regulating valves	A1-F18AC-410-300	4121210		/ /	/ /	

B.21 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Anti-"G" system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Anti-"G" system	A1-F18AX-410-100		*	* / /	* / /	
B	Functional check						
B-1	Anti-"G" system	A1-F18AX-410-200			/ /	* / /	
C	Fault isolation						
C-1	Anti-"G" system	A1-F18AX-410-200	41210	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R anti-"G" valve	A1-F18AX-410-300	41213	*	/ /	/ /	
D-2	R&R anti-"G" suit disconnect	A1-F18AX-410-300	41213	*	/ /	/ /	

B.22 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Deployable Flight Incident Recorder System (DFIRS)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Deployable Flight Incident Recorder System (DFIRS)	A1-F18AE-580-100			/ /	* / /	
B	Functional check						
B-1	Deployable Flight Incident Recorder System (DFIRS)	A1-F18AE-580-200			/ /	* / /	
C	Fault isolation						
C-1	Deployable Flight Incident Recorder System (DFIRS)	A1-F18AE-580-200			/ /	* / /	
D	Organizational maintenance						
D-1	R&R DFIRS system components	A1-F18AE-580-300			/ /	/ /	

ITSS (MATMEP)

APPENDIX A

INDIVIDUAL EXPERIENCE DATA SHEET

INDIVIDUAL DATA

UNIT EXPERIENCE DATA

NAME: _____

UNIT SHOP BILLET FROM/TO DATES

SSN: _____

FORMAL SCHOOLS

SCHOOLS NAME	DATE COMPLETED	UNIT	SHOP	BILLET	FROM/TO DATES

COMMENTS :

ITSS (MATMEP)

APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT SAFETY EQUIPMENT MECHANIC (MOS 6287)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	A.1	A.2	A.3	A.4	A.5	A.6	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	B.9
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															
	II					XXXXX	XXXXX		XXXXX							
	III															
	IV															

DATE: August 2002

ITSS (MATMEP)

APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT SAFETY EQUIPMENT MECHANIC (MOS 6287)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B.10	B.11	B.12	B.13	B.14	B.15	B.16	B.17	B.18	B.19	B.20	B.21	B.22
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													
	II					XXXXX				XXXXX		XXXXX		XXXXX
	III					XXXXX								
	IV													

